SEQUENCE LISTING

<110> Owen, Donald R.

<120> SHORT BIOACTIVE PEPTIDES

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Phe Ala Lys Leu Leu Ala Lys Leu Ala Lys Lys Glu Leu
1 5 10

<210> 89
<211> 13
<212> PRT
<213> SYNTHETIC

<220>
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<223> AMIDATION

<400> 89
Phe Ala Lys Leu Leu Ala Lys Leu Ala Lys Lys Ser Leu
1 5 10

<210> 90
<211> 5
<212> PRT
<213> SYNTHETIC

<220>
<221> MOD_RES
<222> (5)
<223> AMIDATION

<400> 90
Phe Ala Lys Leu Ala
1 5

<210> 91
<211> 5
<212> PRT
<213> SYNTHETIC

<220>
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<222> (5)
<223> AMIDATION

<400> 91
Phe Ala Lys Leu Phe

1 5

<210> 92
<211> 5
<212> PRT
<213> SYNTHETIC

<220>
<221> MOD_RES
<222> (5)
<223> AMIDATION

<400> 92
Lys Ala Lys Leu Phe
1 5

<210> 93
<211> 5
<212> PRT
<213> SYNTHETIC

<220>
<221> MOD_RES
<222> (5)
<223> AMIDATION

<400> 93
Lys Trp Lys Leu Phe
1 5

<210> 94
<211> 13
<212> PRT
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<220>
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<222> (13)
<223> AMIDATION

<400> 94
Phe Gly Lys Gly Ile Gly Lys Val Gly Lys Lys Leu Leu
1 5 10

<210> 95
<211> 15
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<223> AMIDATION

<400> 95
Phe Ala Phe Gly Lys Gly Ile Gly Lys Val Gly Lys Lys Leu Leu
1 5 10 15

<210> 96
<211> 22
<212> PRT
<213> SYNTHETIC

<220>
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<222> (22)
<223> AMIDATION

<400> 96
Phe Ala Lys Ala Ile Ala Lys Ile Ala Phe Gly Lys Gly Ile Gly Lys
1 5 10 15

Val Gly Lys Lys Leu Leu
20

<210> 97
<211> 22
<212> PRT
<213> SYNTHETIC

<220>
<221> MOD_RES
<222> (22)
<223> AMIDATION

<400> 97
Phe Ala Lys Leu Trp Ala Lys Leu Ala Phe Gly Lys Gly Ile Gly Lys
1 5 10 15

Val Gly Lys Lys Leu Leu
20

<210> 98
<211> 12
<212> PRT
<213> SYNTHETIC

<220>
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<222> (12)
<223> AMIDATION

<400> 98
Phe Ala Lys Leu Trp Ala Lys Leu Ala Lys Lys Leu
1 5 10

<210> 99
<211> 13
<212> PRT
<213> SYNTHETIC

<220>
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<222> (13)
<223> AMIDATION

<400> 99
Phe Ala Lys Gly Val Gly Lys Val Gly Lys Lys Ala Leu
1 5 10

<210> 100
<211> 15
<212> PRT
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<220>
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<223> AMIDATION

<400> 100
Phe Ala Phe Gly Lys Gly Ile Gly Lys Ile Gly Lys Lys Gly Leu
1 5 10 15

<210> 101
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<212> PRT
<213> SYNTHETIC

<220>
<221> MOD_RES
<222> (16)
<223> AMIDATION

<400> 101
Phe Ala Lys Ile Ile Ala Lys Ile Ala Lys Ile Ala Lys Lys Ile Leu
1 5 10 15

<210> 102
<211> 15
<212> PRT
<213> SYNTHETIC

<220>
<221> MOD_RES
<222> (15)
<223> AMIDATION

<400> 102
Phe Ala Phe Ala Lys Ile Ile Ala Lys Ile Ala Lys Lys Ile Ile

1 5 10 15

<210> 103
<211> 7
<212> PRT
<213> SYNTHETIC

<220>
<221> MOD_RES
<222> (7)
<223> AMIDATION

<400> 103
Phe Ala Leu Ala Leu Lys Ala
1 5

<210> 104
<211> 12
<212> PRT
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<220>
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<222> (12)
<223> AMIDATION

<400> 104
Lys Trp Lys Leu Ala Lys Lys Ala Leu Ala Leu Leu
1 5 10

<210> 105
<211> 12
<212> PRT
<213> SYNTHETIC

<220>
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<222> (12)
<223> AMIDATION

<400> 105
Phe Ala Lys Ile Ile Ala Lys Ile Ala Lys Lys Ile
1 5 10

<210> 106
<211> 12
<212> PRT
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<220>
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<222> (12)
<223> AMIDATION

<400> 106
Phe Ala Leu Ala Leu Lys Ala Leu Lys Lys Ala Leu
1 5 10

<210> 107
<211> 8
<212> PRT
<213> SYNTHETIC

<220>
<221> MOD_RES
<222> (8)
<223> AMIDATION

<400> 107
Phe Ala Leu Lys Ala Leu Lys Lys
1 5

<210> 108
<211> 13
<212> PRT
<213> SYNTHETIC

<220>
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<223> AMIDATION

<400> 108
Lys Tyr Lys Lys Ala Leu Lys Lys Leu Ala Lys Leu Leu
1 5 10

<210> 109
<211> 17
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<213> SYNTHETIC

<220>
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<222> (17)
<223> AMIDATION

<400> 109
Phe Lys Arg Leu Ala Lys Ile Lys Val Leu Arg Leu Ala Lys Ile Lys
1 5 10 15

Arg

<210> 110
<211> 13
<212> PRT

<213> SYNTHETIC

<220>
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<222> (13)
<223> AMIDATION

<400> 110
Phe Ala Lys Leu Ala Lys Lys Ala Leu Ala Lys Leu Leu
1 5 10

<210> 111
<211> 13
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<213> SYNTHETIC

<220>
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<223> AMIDATION

<220>
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<223> AMIDATION

<400> 111
Lys Ala Lys Leu Ala Lys Lys Ala Leu Ala Lys Leu Leu
1 5 10

<210> 112
<211> 17
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<213> SYNTHETIC

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<222> (17)
<223> AMIDATION

<400> 112
Lys Leu Ala Leu Lys Leu Ala Leu Lys Ala Leu Lys Ala Ala Lys Leu
1 5 10 15

Ala

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<212> PRT
<213> SYNTHETIC

<220>
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<222> (11)
<223> AMIDATION

<400> 113
Phe Ala Lys Leu Leu Ala Lys Leu Ala Lys Lys
1 5 10

<210> 114
<211> 13
<212> PRT
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<220>
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<222> (13)
<223> AMIDATION

<400> 114
Phe Ala Lys Leu Leu Ala Lys Leu Ala Lys Lys Gly Leu
1 5 10

<210> 115
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<212> PRT
<213> SYNTHETIC

<400> 115
Met
1

<210> 116
<211> 13
<212> PRT
<213> SYNTHETIC

<220>
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<222> (13)
<223> AMIDATION

<400> 116
Val Ala Lys Leu Leu Ala Lys Leu Ala Lys Lys Val Leu
1 5 10

<210> 117
<211> 13
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<213> SYNTHETIC

<220>
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<223> AMIDATION

<400> 117
Tyr Ala Lys Leu Leu Ala Lys Leu Ala Lys Lys Ala Leu
1 5 10

<210> 118
<211> 17
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<220>
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<222> (17)
<223> AMIDATION

<400> 118
Lys Leu Leu Lys Leu Leu Leu Lys Leu Tyr Lys Lys Leu Leu Lys Leu
1 5 10 15

Leu

<210> 119
<211> 26
<212> PRT
<213> SYNTHETIC

<220>
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<222> (26)
<223> AMIDATION

<400> 119
Phe Ala Val Gly Leu Arg Ala Ile Lys Arg Ala Leu Lys Lys Leu Arg
1 5 10 15

Arg Gly Val Arg Lys Val Ala Lys Asp Leu
20 25

<210> 120
<211> 16
<212> PRT
<213> SYNTHETIC

<220>
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<222> (16)
<223> AMIDATION

<400> 120
Lys Leu Ala Lys Lys Leu Ala Lys Leu Ala Lys Leu Ala Lys Ala Leu
1 5 10 15

<210> 121
<211> 16
<212> PRT
<213> SYNTHETIC

<400> 121
Lys Leu Ala Lys Lys Leu Ala Lys Leu Ala Lys Leu Ala Lys Ala Leu
1 5 10 15

<210> 122
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<212> PRT
<213> SYNTHETIC

<220>
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<222> (9)
<223> AMIDATION

<400> 122
Lys Trp Lys Lys Leu Ala Lys Lys Trp
1 5

<210> 123
<211> 9
<212> PRT
<213> SYNTHETIC

<400> 123
Lys Trp Lys Lys Leu Ala Lys Lys Trp
1 5

<210> 124
<211> 17
<212> PRT
<213> SYNTHETIC

<220>
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<222> (17)
<223> AMIDATION

<400> 124
Lys Leu Trp Lys Lys Trp Ala Lys Lys Trp Leu Lys Leu Trp Lys Ala
1 5 10 15

Trp

<210> 125
<211> 16
<212> PRT
<213> SYNTHETIC

<400> 125
Lys Leu Trp Lys Lys Trp Ala Lys Lys Trp Leu Lys Leu Trp Lys Ala
1 5 10 15

<210> 126
<211> 11
<212> PRT
<213> SYNTHETIC

<220>
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<222> (11)
<223> AMIDATION

<400> 126
Phe Ala Leu Ala Leu Lys Ala Leu Lys Lys Leu
1 5 10

<210> 127
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<212> PRT
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<220>
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<400> 127
Phe Ala Leu Ala Lys Ala Leu Lys Lys Ala Leu
1 5 10

<210> 128
<211> 12
<212> PRT
<213> SYNTHETIC

<220>
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<222> (12)
<223> AMIDATION

<400> 128
Phe Ala Leu Ala Leu Lys Leu Ala Lys Lys Ala Leu
1 5 10

<210> 129
<211> 6
<212> PRT
<213> SYNTHETIC

<220>

<221> MOD_RES
<222> (6)
<223> AMIDATION

<400> 129
Phe Ala Leu Leu Lys Leu
1 5

<210> 130
<211> 10
<212> PRT
<213> SYNTHETIC

<220>
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<222> (10)
<223> AMIDATION

<400> 130
Phe Ala Leu Ala Leu Lys Ala Leu Lys Lys
1 5 10

<210> 131
<211> 10
<212> PRT
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<220>
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<222> (10)
<223> AMIDATION

<400> 131
Phe Ala Leu Lys Ala Leu Lys Lys Ala Leu
1 5 10

<210> 132
<211> 11
<212> PRT
<213> SYNTHETIC

<220>
<221> MOD_RES
<222> (11)
<223> AMIDATION

<400> 132
Phe Ala Leu Leu Lys Ala Leu Lys Lys Ala Leu
1 5 10

<210> 133
<211> 4
<212> PRT

<213> SYNTHETIC

<220>
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<222> (4)
<223> AMIDATION

<400> 133
Lys Trp Lys Lys
1

<210> 134
<211> 5
<212> PRT
<213> SYNTHETIC

<220>
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<222> (5)
<223> AMIDATION

<400> 134
Lys Trp Lys Lys Leu
1 5

<210> 135
<211> 9
<212> PRT
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<220>
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<223> AMIDATION

<400> 135
Lys Phe Lys Lys Leu Ala Lys Lys Phe
1 5

<210> 136
<211> 9
<212> PRT
<213> SYNTHETIC

<220>
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<222> (9)
<223> AMIDATION

<400> 136
Lys Phe Lys Lys Leu Ala Lys Lys Trp
1 5

<210> 137
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<212> PRT
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<220>
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<400> 137
Phe Ala Leu Ala Leu Lys Ala Leu Lys Lys Ala
1 5 10

<210> 138
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<220>
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<222> (12)
<223> AMIDATION

<400> 138
Phe Ala Leu Leu Lys Ala Leu Leu Lys Lys Ala Leu
1 5 10

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<220>
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<222> (11)
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<400> 139
Phe Ala Leu Ala Leu Lys Leu Ala Lys Lys Leu
1 5 10

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<212> PRT
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<220>
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<222> (11)
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<400> 140
Leu Lys Lys Leu Ala Lys Leu Ala Leu Ala Phe

1 5 10

<210> 141
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<212> PRT
<213> SYNTHETIC

<220>
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<222> (11)
<223> AMIDATION

<400> 141
Val Ala Leu Ala Leu Lys Ala Leu Lys Lys Leu
1 5 10

<210> 142
<211> 10
<212> PRT
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<220>
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<222> (10)
<223> AMIDATION

<400> 142
Phe Ala Leu Ala Leu Lys Leu Lys Lys Leu
1 5 10

<210> 143
<211> 10
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<213> SYNTHETIC

<220>
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<222> (10)
<223> AMIDATION

<400> 143
Phe Ala Leu Ala Leu Lys Ala Lys Lys Leu
1 5 10

<210> 144
<211> 4
<212> PRT
<213> SYNTHETIC

<220>
<221> MOD_RES
<222> (4)
<223> AMIDATION

<400> 144
Phe Ala Leu Ala
1

<210> 145
<211> 5
<212> PRT
<213> SYNTHETIC

<220>
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<222> (5)
<223> AMIDATION

<400> 145
Trp Ala Leu Ala Leu
1 5

<210> 146
<211> 23
<212> PRT
<213> SYNTHETIC

<220>
<221> MOD_RES
<222> (23)
<223> AMIDATION

<400> 146
Gly Ile Gly Lys Phe Leu His Ala Ala Lys Lys Phe Ala Lys Ala Phe
1 5 10 15

Val Ala Glu Ile Met Asn Ser
20

<210> 147
<211> 23
<212> PRT
<213> SYNTHETIC

<220>
<221> MOD_RES
<222> (23)
<223> AMIDATION

<400> 147
Phe Ala Lys Lys Phe Ala Lys Lys Phe Lys Lys Phe Ala Lys Lys Phe
1 5 10 15

Ala Lys Phe Ala Phe Ala Phe
20

<210> 148
<211> 10
<212> PRT
<213> SYNTHETIC

<220>
<221> MOD_RES
<222> (10)
<223> AMIDATION

<400> 148
Lys Lys Val Val Phe Lys Val Lys Phe Lys
1 5 10

<210> 149
<211> 10
<212> PRT
<213> SYNTHETIC

<220>
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<222> (10)
<223> AMIDATION

<400> 149
Phe Lys Val Lys Phe Lys Val Lys Val Lys
1 5 10

<210> 150
<211> 38
<212> PRT
<213> SYNTHETIC

<220>
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<222> (38)
<223> AMIDATION

<400> 150
Leu Pro Lys Trp Lys Val Phe Lys Lys Ile Glu Lys Val Gly Arg Asn
1 5 10 15

Ile Arg Asn Gly Ile Val Lys Ala Gly Pro Ala Ile Ala Val Leu Gly
20 25 30

Glu Ala Lys Ala Leu Gly
35

<210> 151
<211> 23
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<213> SYNTHETIC

<220>

<221> MOD_RES
<222> (23)
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<400> 151
Phe Ala Lys Lys Leu Ala Lys Lys Leu Lys Lys Leu Ala Lys Lys Leu
1 5 10 15

Ala Lys Leu Ala Lys Lys Leu
20

<210> 152
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<213> SYNTHETIC

<220>
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<222> (15)
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<400> 152
Val Ala Lys Ala Leu Lys Ala Leu Leu Lys Ala Leu Lys Ala Leu
1 5 10 15

<210> 153
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<213> SYNTHETIC

<220>
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<400> 153
Val Ala Lys Phe Leu Ala Lys Phe Leu Lys Lys Ala Leu
1 5 10

<210> 154
<211> 23
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<213> SYNTHETIC

<220>
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<222> (23)
<223> AMIDATION

<400> 154
Val Ala Lys Lys Phe Ala Lys Lys Phe Lys Lys Phe Ala Lys Lys Phe
1 5 10 15

Ala Lys Phe Ala Phe Ala Phe

<210> 155
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<212> PRT
<213> SYNTHETIC

<220>
<221> MOD_RES
<222> (19)
<223> AMIDATION

<400> 155
Val Ala Lys Lys Leu Ala Lys Leu Ala Lys Lys Leu Ala Lys Leu Ala
1 5 10 15

Leu Ala Leu

<210> 156
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<212> PRT
<213> SYNTHETIC

<220>
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<222> (15)
<223> AMIDATION

<400> 156
Val Ala Lys Lys Leu Ala Lys Leu Ala Lys Lys Leu Leu Ala Leu
1 5 10 15

<210> 157
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<213> SYNTHETIC

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<223> AMIDATION

<400> 157
Val Ala Lys Leu Leu Ala Lys Ala Leu Lys Lys Leu Leu
1 5 10

<210> 158
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<220>

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<222> (23)
<223> AMIDATION

<400> 158
Val Ala Leu Ala Leu Lys Ala Leu Lys Lys Ala Leu Lys Lys Leu Lys
1 5 10 15

Lys Ala Leu Lys Lys Ala Leu
20

<210> 159
<211> 23
<212> PRT
<213> SYNTHETIC

<400> 159
Val Ala Leu Ala Leu Lys Ala Leu Lys Lys Ala Leu Lys Lys Leu Lys
1 5 10 15

Lys Ala Leu Lys Lys Ala Leu
20

<210> 160
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<400> 160
Val Ala Leu Ala Leu Lys Ala Leu Lys Lys Leu Ala Lys Lys Leu Lys
1 5 10 15

Lys Leu Ala Lys Lys Ala Leu
20

<210> 161
<211> 23
<212> PRT
<213> SYNTHETIC

<220>
<221> MOD_RES
<222> (23)
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<400> 161
Val Ala Leu Ala Leu Lys Ala Leu Lys Lys Leu Leu Lys Lys Leu Lys
1 5 10 15

Lys Leu Ala Lys Lys Ala Leu
20

<210> 162
<211> 23
<212> PRT
<213> SYNTHETIC

<400> 162
Phe Ala Lys Lys Leu Ala Lys Lys Leu Lys Lys Leu Ala Lys Lys Leu
1 5 10 15

Ala Lys Leu Ala Leu Ala Leu
20

<210> 163
<211> 30
<212> PRT
<213> SYNTHETIC

<400> 163
Phe Ala Lys Lys Leu Ala Lys Lys Leu Lys Lys Leu Ala Lys Lys Leu
1 5 10 15

Ala Lys Leu Ala Leu Ala Leu Lys Ala Leu Ala Leu Lys Ala
20 25 30

<210> 164
<211> 18
<212> PRT
<213> SYNTHETIC

<220>
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<222> (18)
<223> AMIDATION

<400> 164
Phe Ala Lys Lys Leu Ala Lys Lys Leu Lys Lys Leu Ala Lys Lys Leu
1 5 10 15

Ala Lys

<210> 165
<211> 13
<212> PRT
<213> SYNTHETIC

<220>
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<223> AMIDATION

<400> 165

Phe Ala Lys Leu Leu Ala Leu Ala Leu Lys Lys Ala Leu
  1   5   10